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What is claimed is:

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- 1. A method for reducing a neurological deficit in a patient who has suffered an injury to the central nervous system, the method comprising administering to the patient an amount of an epidermal growth factor-like (EGF-like) polypeptide effective to reduce a neurological deficit in the patient.
- 2. The method of claim 1, wherein the injury comprises an ischemic episode.
- 10 3. The method of claim 2, wherein the ischemic episode is a focal ischemic episode.
  - 4. The method of claim 2, wherein the ischemic episode is a global ischemic episode.
- 5. The method of claim 1, wherein the injury 15 comprises a traumatic injury.
  - 6. The method of claim 1, wherein the EGF-like polypeptide is epidermal growth factor or an EGF receptor-binding fragment or analog thereof.
- 7. The method of claim 1, wherein the EGF-like 20 polypeptide is transforming growth factor-alpha (TGFα), vaccinia growth factor (VGF), amphiregulin (AR), betacellulin (BTC), epiregulin, or a neuregulin.
- 8. The method of dialm 1, wherein the EGF-like polypeptide is heparin-binding EGF (HB-EGF) or an EGF receptor-binding fragment or analog thereof.

- 9. The method of claim 8, wherein the EGF receptor-binding fragment comprises the EGF domain of HB-EGF (SEQ ID NO:3).
- 10. The method of claim 8, wherein the EGF
  5 receptor-binding fragment comprises a deletion of 1, 2,
  5, or 10 amino acid residues from the amino or carboxy
  terminals of HB-EGF.
- 11. The method of claim 10, wherein the EGF receptor-binding fragment comprises amino acid residues 10 2-208, 6-208, 11-208, 100-208, 100-145, 1-207, 1-202, or 1-198 of SEQ ID NO:2.
- 12. The method of claim 10, wherein the EGF receptor-binding fragment comprises amino acid residues 82-147 of SEQ ID NO:2 or amino acid residues 63-148 of 15 SEQ ID NO:2.
  - 13. The method of claim 8, wherein the EGF receptor-binding fragment comprises HB-EGF (SEQ ID NO:2) with one conservative amino acid substitution.
- 14. The method of claim 1, wherein administration 20 of the EGF-like polypeptide commences more than 6 hours after the injury.
  - 15. The method of claim 14, wherein administration of the EGF-like polypeptide commences more than 12 hours after the injury.
- 25 16. The method of claim 14, wherein administration of the EGF-like polypeptide commences more than 24 hours after the injury.



- 17. The method of claim 1, wherein the EGF-like polypeptide is administered intravenously.
  - 18. The method of claim 1, wherein the EGF-like polypeptide is administered intracisternally.
- 19. An EGF-like polypeptide for use in reducing a neurological deficit in a patient who has suffered an injury to the central nervous system.
- 20. The polypeptide of claim 19, wherein the EGFlike polypeptide is epidermal growth factor or an EGF 10 receptor-binding fragment or analog thereof.
  - 21. The polypeptide of claim 19, wherein the EGF-like polypeptide is transforming growth factor-alpha (TGFα), vaccinia growth factor (VGF), amphiregulin (AR), betacellulin (BTC), epigegulin, or a neuregulin.
- 15 22. The polypeptide of claim 19, wherein the EGF-like polypeptide is heparin-binding EGF (HB-EGF) or an EGF receptor-binding fragment or analog thereof.
- 23. The polypeptide of claim 22, wherein the EGF receptor-binding fragment comprises the EGF domain of HB-20 EGF (SEQ ID NO:3).
  - 24. The use of an EGF-like polypeptide for the manufacture of a medicament for the treatment of a neurological deficit.

